

12 Aseptic Seat Valve SA



INFORMATION

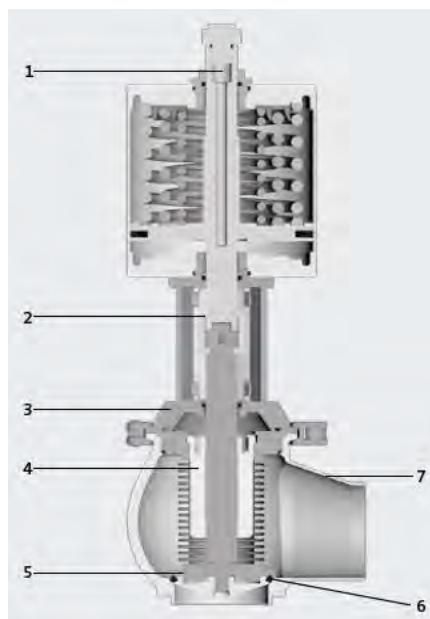
Microbiologically sensitive products need to be treated with special care. The highest safety standards along the entire product handling chain are needed to guarantee that quality and shelf life will leave no grounds for complaint.

With its new modular system of parts for aseptic valves within the EVOGUARD valve range, KRONES now offers the right components for all applications within the aseptic process. The new concept underlying these aseptic valves is based on extensive tests, which were carried out under production conditions in the valve technology field, and on the use of modern methods of analysis and engineering design. With this data in particular it has been possible to realise optimised details of design on all components. For you this means not only top performance from the individual components but also coherent concepts for your process as a whole.

The EVOGUARD aseptic range takes account of all the requirements imposed on aseptic processes and safe product handling. Both the aseptic seat valves and the aseptic double seat valves offer new important details at key points of valve design in order to ensure a high level of production safety.

Design features of modular aseptic seat valves

- The housing withstands very high loads from operating pressures of PN25. The configuration and optimised geometry in accordance with EHEDG specifications ensure high reliability in the production process.
- The metal bellows provides for hermetic sealing of the product space from the atmosphere. Its multilayer design and optimised guidance by means of a support element result in prolonged service life and prevent the bellows from being overloaded during dismantling.
- The valve disk has a flow-efficient design. It is possible to choose between a single-piece version with a seal made of PTFE compound and a two-piece threaded version with a seal made of EPDM/FDA or FKM HF.
- Actuator size matched to product pressure



- 1 Internal airflow on version with control head
- 2 Valve shaft connection with rotational decoupling
- 3 Connection for leakage discharge
- 4 Support element
- 5 Valve disk
- 6 Metal stop
- 7 Optimised single-piece housing



Two-piece valve disk,
threaded,
EPDM/FDA
or FKM HF seal



One-piece
valve disk,
PTFE
Compound seal

TECHNICAL DATA

Pressures

Product pressure	PN 87 psi (6 bar), 145 psi (10 bar) / vacuum -13.8 psi (-0.95 bar)
Housing	PN 360 psi (25 bar)
Control air pressure	min. 87 psi (6 bar) - max. 115 psi (8 bar)

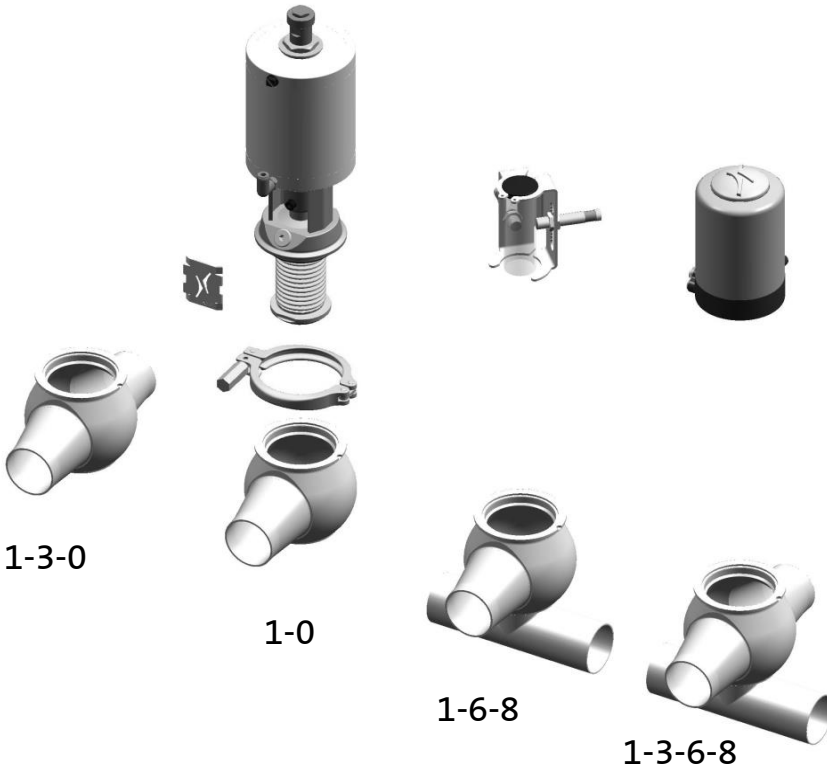
Material

With product contact	1.4404 / AISI 316L
Without product contact	1.4301
Seal	EPDM / FDA, FKM HF PTFE Compound

Surface

With product contact	Ra ≤ 0.8 μ
Without product contact	Ra ≤ 1.6 μ

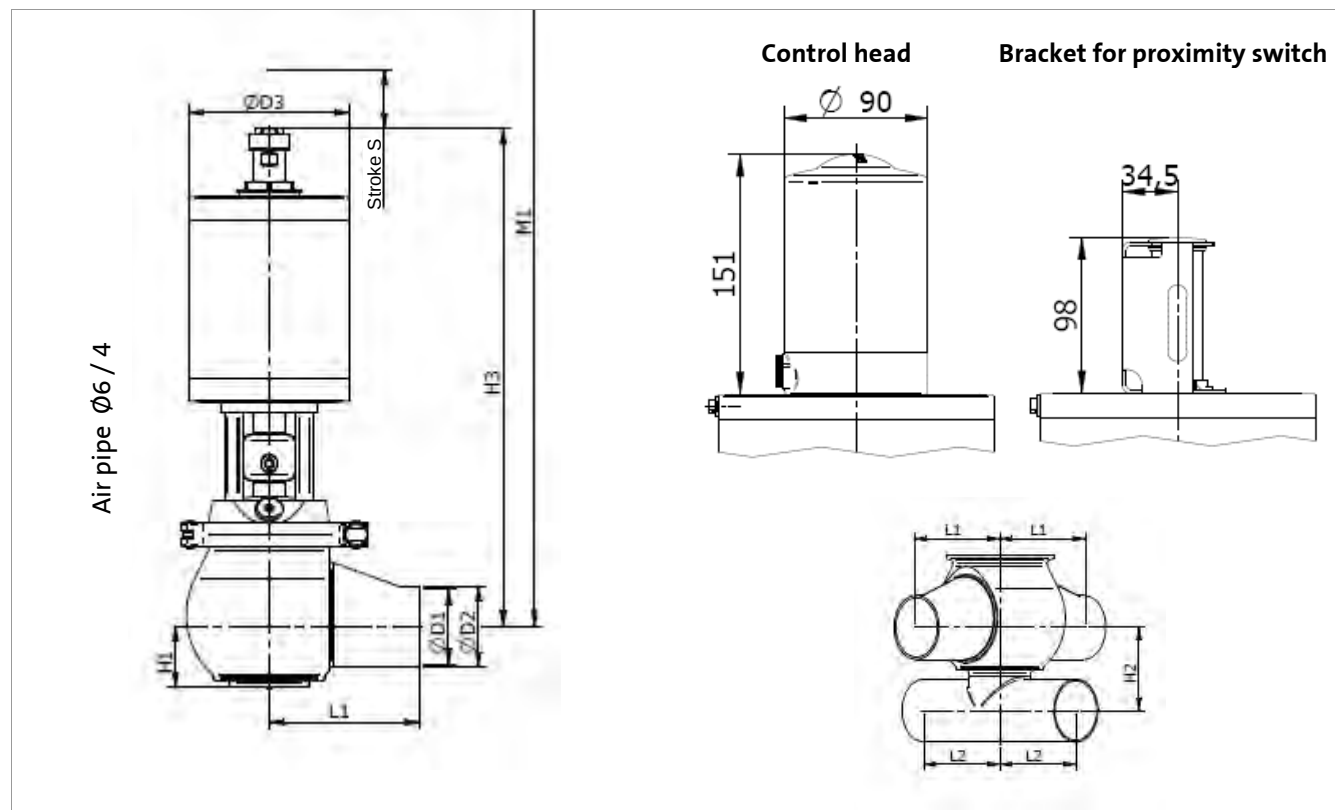
Designs

Housing versions	
Actuator	Pneumatic actuator NC / NO / AA
Additional equipment	Control head Proximity switch M12x1

According to legal requirements
EU Pressure Equipment Directive 2014/68/EU
EU Machinery Directive 2006/42/EC
Design check by TÜV Süd



ASEPTIC SEAT VALVE SA



Dimensions

DN	ØD1 mm	ØD2 mm	ØD3 PN 6 mm	ØD3 PN 10 mm	L1 mm	L2 mm	H1 mm	H2 mm	H3 PN 6 mm	H3 PN10 mm	M1 mm	Stroke mm
25	26	29		89	70	90	25	42	324	324	395	7
40	38	41		108	90	90	39	62	329	329	420	9
50	50	53		108	100	90	41	70	335	335	445	15
65	66	70	108	133	100	125	52	89,5	361	361	485	18
80	81	85	133	173	125	125	60	105	373	444	595	22
100	100	104	173	216	155	125	70	124,5	459	467	640	28
125	125	129	216	216	175	150	82	149	480	690	895	33
150												

Weight

DN	1-0 PN 6 kg	1-0 PN10 kg
25		5,6
40		8,7
50		8,9
65	11,2	13,6
80	16,7	24,8
100	30,6	41,8
125	50,1	66,5
150		

Actuator: NC (spring closing / air opening)
NO (air closing / spring opening)
AA (air opening / air closing)
MA (manual)

Seal material: E (EPDM)
F (FKM HF)
P (PTFE Compound)

Example for Description :

Aseptic Seat Valve SA DN80 130 NC E

Housing: 1-0
1-3-0
1-6-8
1-3-6-8

Diameter

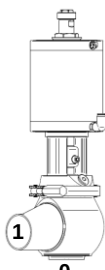
Type: SA Aseptic Seat Valve

ASEPTIC SEAT VALVE SA NC PRODUCT PRESSURE 6 BAR

Including switch mount for proximity switch

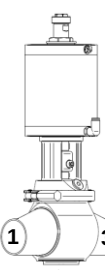
1-0

1.4404 / AISI 316L

	DN	- EPDM	- FKM HF	- PTFE Compound
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65			0903022733
	80			0903531637
	100			0903759472
	125	0902882863		0903126045
	150			

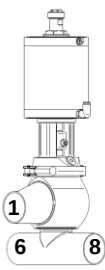
1-3-0

1.4404 / AISI 316L

	DN	- EPDM	- FKM HF	- PTFE Compound
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65	0903022797		0903022735
	80			0903991054
	100			0904627210
	125			0902882869
	150			

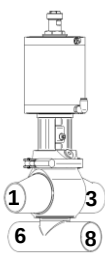
1-6-8

1.4404 / AISI 316L

	DN	- EPDM	- FKM HF	- PTFE Compound
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65			
	80			
	100			
	125			
	150			

1-3-6-8

1.4404 / AISI 316L

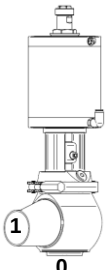
	DN	- EPDM	- FKM HF	- PTFE Compound
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65			
	80			
	100			
	125			
	150			

ASEPTIC SEAT VALVE SA NC PRODUCT PRESSURE 10 BAR

Including switch mount for proximity switch

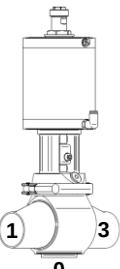
1-0

1.4404 / AISI 316L

	DN	- EPDM	- FKM HF	- PTFE Compound
		Material no.	Material no.	Material no.
	25	0902873327		0902875490
	40	0902879631		0902876654
	50	0902879670		0902879671
	65	0902879818		0902879825
	80	0902879806		0902880291
	100	0902882056		0902882151
	125			
	150			

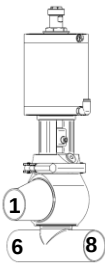
1-3-0

1.4404 / AISI 316L

	DN	- EPDM	- FKM HF	- PTFE Compound
		Material no.	Material no.	Material no.
	25			0902883003
	40			0903079720
	50			0904186716
	65		0903540387	0902884513
	80			0904628144
	100			0902886789
	125			
	150			

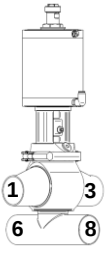
1-6-8

1.4404 / AISI 316L

	DN	- EPDM	- FKM HF	- PTFE Compound
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65			
	80			
	100			
	125			
	150			

1-3-6-8

1.4404 / AISI 316L

	DN	- EPDM	- FKM HF	- PTFE Compound
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65			
	80			
	100			
	125			
	150			

SPARE PARTS ASEPTIC SEAT VALVE SA

Seal kit with product contact

	DN	EPDM	FKM HF	PTFE Compound
		Material no.	Material no.	Material no.
	25	0903424829	0903953200	0903424850
	40	0903424853	0903424851	0903424852
	50	0903424853	0903424851	0903424852
	65	0903424855	0903953201	0903424856
	80	0903424857	0903953202	0903424858
	100	0903424859	0903953203	0903424860
	125	0903424861	0903953204	0903424862
	150			

Bellow, elastomer seal

	DN	
		Material no.
	25	0902567648
	40	0902567649
	50	0902567780
	65	0902567781
	80	0902567782
	100	0902567783
	125	0902567784
	150	

Bellow, PTFE Compound seal shrunk-on

	DN	
		Material no.
	25	0903420547
	40	0903420548
	50	0903420549
	65	0903420570
	80	0903420571
	100	0903420572
	125	0903420582
	150	

Seal kit, actuator

	DN	
		Material no.
	25	0902517095
	40	
	50	
	65	
	80	
	100	
	125	
	150	

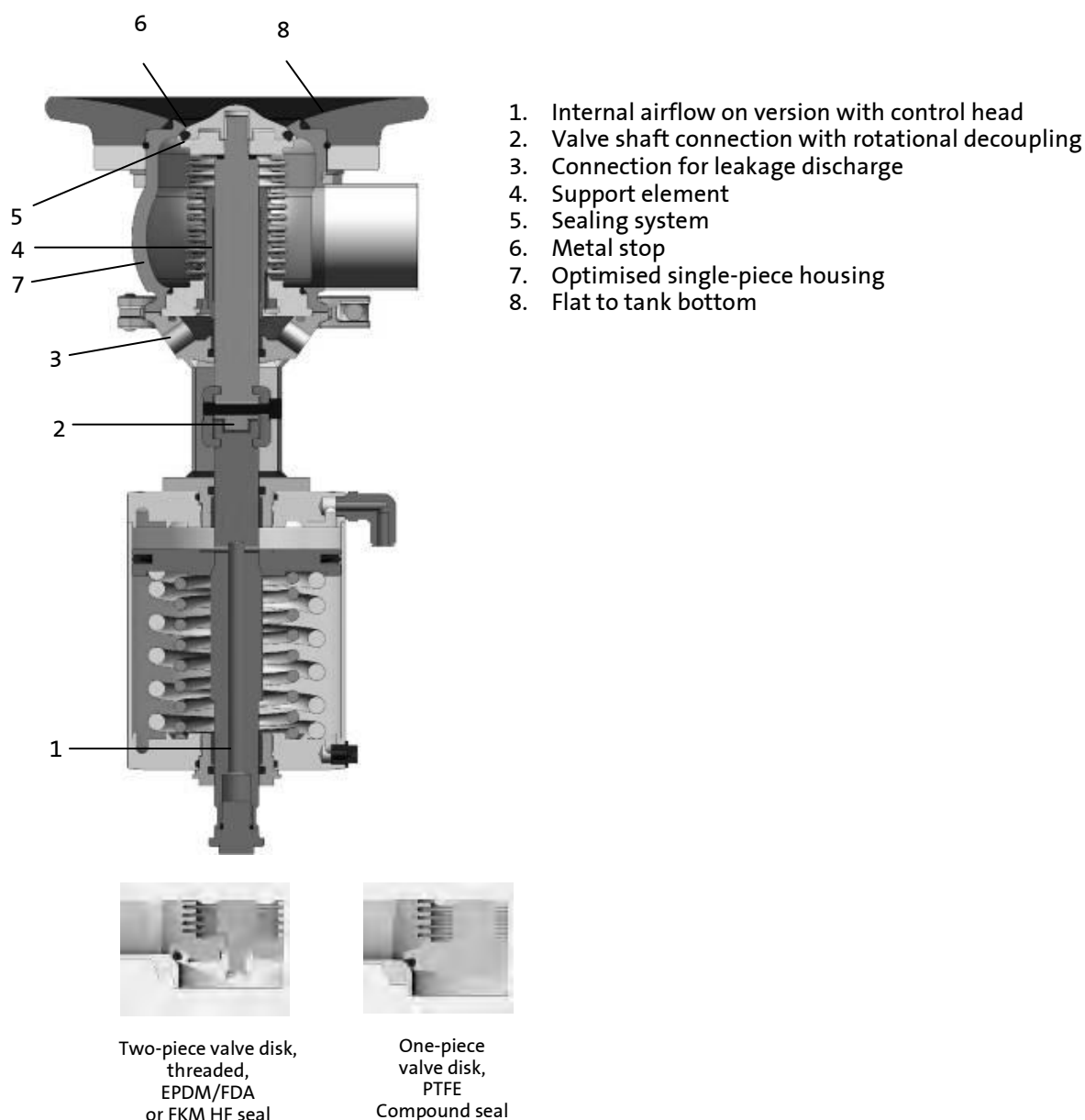
Bearing set

	DN	
		Material no.
	25	0902517063
	40	0902517066
	50	0902517066
	65	0902517067
	80	0902517069
	100	0902517092
	125	0902517093
	150	0902517094

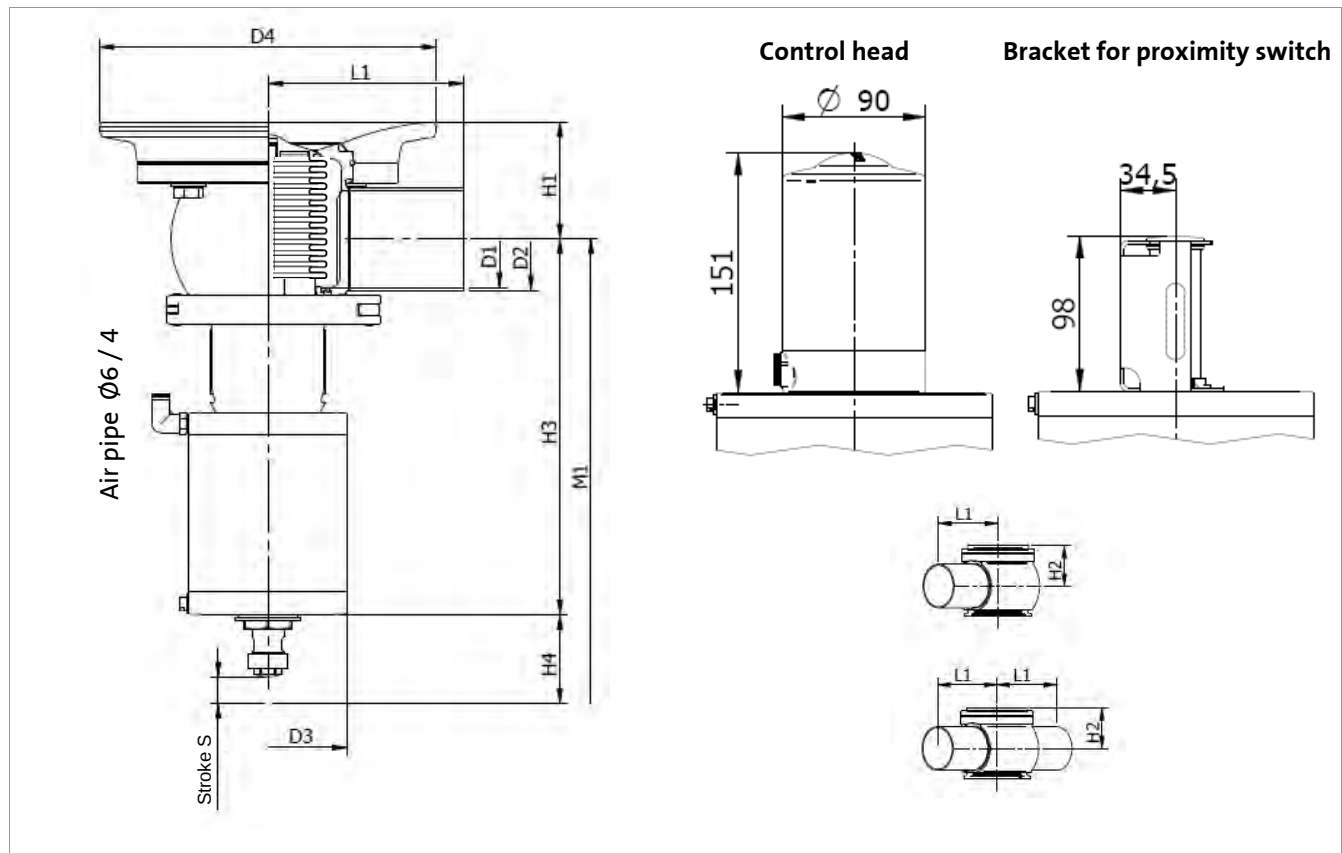
ASEPTIC TANK OUTLET VALVE STA

Design features of modular aseptic tank outlet valves

- Flat to tank bottom – no sump
- One-piece housing continuously adjustable over 360°
- Actuator size matched to product pressure
- Rotational decoupling on linkage between valve shaft and drive for torsion-free lift motion of the valve disk
- Seal geometry optimized for all applicable process conditions
- The housing withstands very high loads from operating pressures of PN25. The configuration and optimised geometry in accordance with EHEDG specifications ensure high reliability in the production process.
- The metal bellows provides for hermetic sealing of the product space from the atmosphere. Its multilayer design and optimised guidance by means of a support element result in prolonged service life and prevent the bellows from being overloaded during dismantling.
- The valve disk has a flow-efficient design. It is possible to choose between a single-piece version with a seal made of PTFE compound and a two-piece threaded version with a seal made of EPDM/FDA or FKM HF.



ASEPTIC TANK OUTLET VALVE STA



Dimensions

DN	ØD1 mm	ØD2 mm	ØD3 mm	ØD4 mm	L1 mm	H1 mm	H2 mm	H3 mm	M1 mm	Stroke mm
25	26	29	89		92,5			284	350	9
40	38	41	108	190	91			284	400	12
50	50	53	108	190	93	69,5	58,5	284	400	18
65	66	70	108	230	133,5	80	65	293	440	20
80	81	85	133	250	134			314	450	23
100	100	104	173	280	137,5			397	580	30
125	125	129	216					422	620	36
150	150	154	216					637	850	42

Weight

DN	1-0 kg	1-3-0 kg	1-6-8 kg	1-3-6-8 kg
25	5,0			
40	8,2			
50	8,3			
65	12,8			
80	25,0			
100	26,8			
125	42,5			
150	51,8			

Actuator: NC (spring closing / air opening)
NO (air closing / spring opening)
AA (air opening / air closing)
MA (manual)

Seal material: E (EPDM)
F (FKM HF)
P (PTFE Compound)

Example for Description :

Aseptic Tank Outlet Valve STA DN80 130 NC E

Housing: 1-0
1-3-0

Diameter

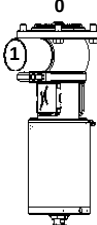
Type: STA Aseptic Tank Outlet Valve

ASEPTIC TANK OUTLET VALVE STA NC PRODUCT PRESSURE 6 BAR

Including switch mount for proximity switch

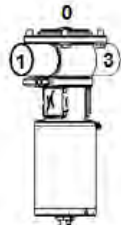
1-0

1.4404 / AISI 316L

	DN	- EPDM	- FKM HF	- PTFE Compound
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65			
	80			
	100			
	125			
	150			

1-3-0

1.4404 / AISI 316L

	DN	- EPDM	- FKM HF	- PTFE Compound
		Material no.	Material no.	Material no.
	25			
	40			0902888347
	50			
	65			
	80			
	100			
	125			
	150			

Tank flange

1.4404 / AISI 316L

	DN	Material no.
	25	0903243897
	40	0902888419
	50	0902888419
	65	0902944701
	80	0902620094
	100	0902620095
	125	0903995180
	150	

SPARE PARTS ASEPTIC TANK OUTLET VALVE STA

Seal kit with product contact

	DN	EPDM	FKM HF	PTFE Compound
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65			
	80			
	100			
	125			
	150			

Bellow, elastomer seal

	DN	Material no.
	25	0902567648
	40	0902567649
	50	0902567780
	65	0902567781
	80	0902567782
	100	0902567783
	125	0902567784
	150	

Bellow, PTFE Compound seal shrunk-on

	DN	Material no.
	25	0903420547
	40	0903420548
	50	0903420549
	65	0903420570
	80	0903420571
	100	0903420572
	125	0903420582
	150	

Seal kit, actuator

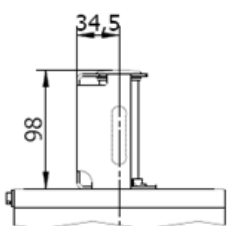
	DN	Material no.
	25	0902517095
	40	
	50	
	65	
	80	
	100	
	125	
	150	

Bearing set

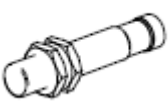
	DN	
		Material no.
	25	0902517063
	40	0902517066
	50	0902517066
	65	0902517067
	80	0902517069
	100	0902517092
	125	0902517093
	150	0902517094

ADDITIONAL EQUIPMENT ASEPTIC SEAT VALVE SA

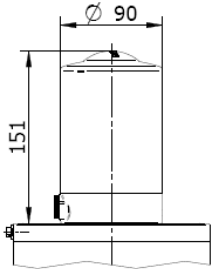
Proximity switch mount M12x1

	DN	Material no.
	25	0903370971
	40	
	50	
	65	
	80	
	100	
	125	
	150	

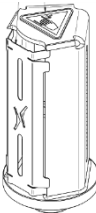
Proximity switch M12x1

	DN	Material no.
	25	0901443696
	40	
	50	
	65	
	80	
	100	
	125	
	150	

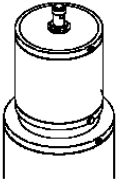
Control head, 2 proximity switches

	DN	24 V DC 2 proximity switches 1 solenoid valves	24 V DC ASI 2 proximity switches 1 solenoid valves
		Material no.	Material no.
	25		
	40		
	50		
	65		
	80		
	100		
	125		
	150		

Limit of stroke, position OPEN or CLOSE

	DN	Material no.
	25	0903887569
	40	
	50	
	65	
	80	
	100	
	125	
	150	

Damping cylinder

	DN	
	Material no.	
	25	0902823833
	40	
	50	
	65	
	80	
	100	
	125	
	150	

